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Faculty Profile



Name: UMESH MADHUKARRAO THORKAR

Date of Birth: 28/06/1973

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Faculty at Institute: Government College of Engineering, Amravati

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Educational Qualification:

S.N.	Degree	University	Institution	Year of passing	Specialization	Score
01	M.Tech.	Visweswarya Technological University (VTU), Belgaum.	Sri Jayachamarajendra College of Engineering, Mysore	2008-2010	Biomedical signal processing and instrumentation	First class with Distinction
02	B.E.	Dr B A Marathwada Uni, Aurangabad	Shri Guru Gobind Singhji College of Engg. Tech, Nanded	1990-1994	Instrumentation	First class with Distinction

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Projects and Dissertations:

Project for Degree	Year	Topic	Guide
B.E.(Instrumentation)	1994	Microprocessor based control of Distillation Unit	Prof Dr B.M.Patre
M.Tech(BMI)	2010	Medical Database management and Web based access.	Prof Dr M Sukumar

Teaching Experience:

S. N.	Organization	Post Held	Date of Joining	Date of Leaving	Period	Nature of Work
01	Government College of Engineering, Amravati	Assistant Professor	25-12-2020	Till date Working	One year ...	Teaching
02	Government College of Engineering, Jalgaon	Assistant Professor Instrumentation and Controller of Examination	08-07-19	24-12-2020	01 Year 06 Months	Teaching
03	Government College of Engineering, Amravati	Assistant Professor and I/C Head Instrumentation	14-06-07	07-07-2019	12 Years	Teaching
04	Government College of Engineering, Chandrapur	Lecturer Instrumentation	02-07-02	13-06-07	04 Years 11 Month	Teaching
05	Manjra Charitable Trust's Rajiv Gandhi Institute of Technology ,Mumbai	Lecturer Instrumentation	02-01-98	01-07-02	04 Yrs 06 Months	Teaching

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06	Herdillia Unimers Ltd, Jui Nagar,Navi Mumbai	Instrumentation Engineer.	18-11-96	17-11-97	One Year	Industry
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Membership of Institutes:

S.N.	Institute	Membership No.
01	Life Member of Indian Society for Technical Education (LMISTE), New Delhi	LM 36483 Year 2003
02	Associate Member of the Institution of Engineers (India), Kolkata	A.M.I.E.093336 Year2005
03	Life Member of Instrument Society Of India, Indian Institute of Science,Banglore	LM 1937 Year 2011
04	Life Member of Biomedical Society Of India, Manipal Institute of Technology ,Manipal	.L 982 Year 2011
05	Life member of Administrative Staff College of India Bella Vista Hydrabad	Prg/13-14/1/40/52010 Dated 03 Oct 2013
06	Life member of Swami Vivekananda rock memorial Kanyakumari	LD/T-129868 Date 26-10- 2016
07	Life member of Forced Biomedical Engineers	FB-M-19-000248 Yr 2019

Research Projects Completed:

S.N.	Title of Project	Grant From	Grant Amount	Project Duration
01	Assisted in project Biomedical instrumentation centre	VVVM, Nagpur	32.50 Lakhs	02 Yrs

Short Term Training Programs:

S.N.	Topic	Institute	Duration	Year
01	Medical Image Analysis	IIT Kharagpur and NPTEL	FEB-Mar 2020 04 Weeks	2020
02	Train the Trainers on Examination Reforms	BVB COE Hubli and NPIU New Delhi	17-19 February 2020	2020

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03	Industry Institute Interaction to Enhance Quality of Technical Education	Government College of Engineering Amravati	03 to 07 February 2020 one week	2020
04	Digital Image Processing	IIT Kharagpur and NPTEL	July to Nov 2019 Tweleve weeks	2019
05	Advancement in Signal and Image Processing	SGGS,IE&T Nanded	27-31 May 2019 one week	2019
06	Biomedical Signal Processing	IIT Kharagpur and NPTEL	28 Dec to Apr 2019 Tweleve weeks	2019
07	Recent Advancement in Instrumentation and Its Applications	Government College of Engineering Amravati	03-08 Dec 2018 one week	2018
08	Innovative Teaching and Research methods	Government College of Engineering Amravati	03-07 Apr 2018 one week	2018
09	Application of Image processing for Industry and Research	College of Engineering Pune	15-19 Jan 2018 one week	2018
10	Biomedical Image Analysis	Indian Institute of Technology Roorkee under GIAN	09-13 Jan 2017 One week	2017
11	Role of ICT in driving Government Performance	National productivity council at Kanyakumari	24-28 Oct 2016 One week	2016
12	International conference on Signal Information Processing	SGGS Nanded and IEEE Mumbai section	06-08 Oct 2016 One week	2016
13	National Teachers congress	MIT Pune	23-25 Sep 2016 One week	2016
14	Open source tools hands on Arduino Micro controller ,PLC,and SANDHI a Lab view alternative	CEP Cell IIT Mumbai and Government College of Engg,Amravai	26 Nov 30 Nov 2015 One week	2015
15	Classical and Modern optimization technique	Government College of Engg,Amravai	21 Sep 25 Sep 2015 One week	2015
16	Biomedical Signal Processing	SGGS Institute of Engineering & Technology	30 Mar 15-03 APR15 One week	2015

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		Nanded		
17	Waste management Techniques	Government College of Engg,Amravai	02 Mar 13 Mar 2015 Two weeks	2015
18	Digital Control from Scratch	CEP Cell IIT Mumbai and Government College of Engg,Amravai	09-13 SEP 2014 One week	2014
19	Microsoft Saksham Training Program	Microsoft and Government College of Engg,Amravai	23-28 Jun 2014	2014
20	Winter School on Biometrics for secured authentication :Fundamental and advances	SGGS Institute of Engineering & Technology Nanded	23Dec-27 Dec 2013	2013
21	Personality Development	Administrative Staff College of India Hyderabad	30 Sept-Oct 4 2013	2013
22	Recent Trends in Artificial Intellegence	Priyadarshini Institute of Engineering and Technology ,Nagpur	27 May-08 Jun 2013	2013
23	E Learning Tools and Technologies in PG Education	Government College of Engg,Amravai	29 Oct -02 NOV 2012	2012
24	Embedded System-A Practical Approach	Government College of Engg,Amravai	03-07 JUL 2012	2012
25	Fundamentals of PLC Programming and Its Industrial Applications	Government College of Engg,Amravai	12 -16 Jun 2012	2012
26	Advance Environment Protection Technologies	Government College of Engg,Amravai	04 -08 Jun 2012	2012
27	Lab view Programming and Its Industrial Applications	College of Engineering, Pune	14-25May 2012	2012
28	Lab View and Data Acquisition Hardware	Trident Techlabs Pvt Ltd, Banglore	17 August 2011	2011
29	Rehabilitation Engineering	Sri Jayachamarajendra College of Engineering, Mysore	27-29 Dec 2009	2009
30	Industrial Training	DTE and Siemens India Limited Kalwa, Mumbai	16 Nov 2006- 10 Jan 2007	2006

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31	Intelligent Control and Automation	Pune Institute of Engineering & Technology, Pune.	10-22 Jan 2005	2005
32	Industrial Training For Engineering Teachers.	Steel Authority of India, Bhilai and Government College of Engineering Amravati.	07-26 Jun 2004	2004
33	Bio Medical Equipment Technology	Government College of Engineering Amravati.	16-20 Jun 2003	2003

Short Term Training Programs Organized:

S.N.	Topic	Participants	Duration	Year
01	One Week AICTE QIP Short Term Course On Recent Advancement in Instrumentation and Its applications “	Faculty of Engineering/Polytechnic/AICTE Approved Institutes	03 December 08 December 2018	2018
01	PLC and SCADA	Third ,Final year students in collaboration with Prolific systems and technologies	12-02-18 to 16-02-2018	2018
02	One day workshop on “Biomedical Imaging Techniques-Recent Trends and Challenges”	Faculty ,from Engg Polytechnic and Final Year students	On 17 Oct 2016	2016
03	One week traing on Labview and Its Industrial Application in collabrations with Trident Tech Labs New Delhi	Final year students	29 31 March 2016	2016
04	“Fundamentals of PLC Programming and Its Industrial Applications”	Engineering/Polytechnic faculty members under TEQIP	one week (STTP) 12-16 Jun 2012	2012

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05	"Industrial Automation"	Third ,Final year students in collaboration with Prolific systems and technologies	19 mar 2012 to 24 mar 2012.	2012
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Resource person /Interaction with other institutes:

S. N	Topic of presentation	Name of the Institute and Funding Agency	Number of Participants	Date of Presentation
1	NBA Norms and Preparation	UICT KBC North Maharashtra University Jalgaon	30	05 Oct 2019
2	Skin Health Assesment using Dermalab Equipment	Government college of Pharmacy Amravati DTE STTP	30	01 Feb 2019
3	Overview of PLC and Basics of PLC Programming	Government Polytechnic Murtizapur	30	18 Jan 2016
4	"Overview of PLC and Basics of PLC Programming "	Shri Datta Meghe Polytechnic Wanadongri Nagpur. AICTE Sponsored Faculty Development Program	70	08 May 2013
5	Orientation Program me Towards Instrumentation Engineering	Government College of Engineering (An autonomous institute of government of Maharashtra)Amravati	40	04 August 2012

Workshops and Seminar Attended:

S.N	Topic	Institute	Duration	Year
01	State level Seminar on Modern trends in digital Instrumentation "ETC-21 Emerging technologies & challenges of the 21st century"	Bhartiya Vidyapeeth College of Engineering, CBD Belapur, Navi Mumbai.	Two days	2001
02	"Curriculum Development in Electronics Engineering- Need of the hour"	B.D.C.O.E, Sewagram (Wardha)	One Day 29 Apr2003	2003.
03	"NI DAYS 06-Worldwide Virtual Instrumentation Conference"	NI and Hotel Leela, Andheri, Mumbai	One day 23 Nov 2006	2006.

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04	"URJA- Journey Beyond Time -5th state level annual conventions" (Maharashtra-Goa Section)	RCERT, Chandrapur.	Two days 17 18 Mar 2006	2006
05	two Days conference "SPARK IT 2010" Growth for IT ecosystem	Indian Institute of Science, Bangalore	Two days 18 19 Mar 2010.	2010
06	"Advance in Engineering methodologies for TEQIP-2 funded Institute"	ADCC Infocad Pvt Ltd at Hotel Courtyard Marriot Hotel Pune	One day 14 Mar 2012	2012
07	One day conference on "SCIENCE AND ENGINEERING INNOVATION"	National Instruments,Banglore at Hotel Pride ,Shivajinagar, Pune	One day 22 May 2012	2012
08	Short paper accepted in Sixth International Conference of Telemedicine Society of India (TELEMEDICON 2010)	Telemedicine Society of India at Bhuwaneswar Topic:'Medical DataManagement'	Three day 14-16 Nov 2010	2010
09	Two days conference "National conference on instrumentation, control and signal processing (ICSP 2013)	Department of Instrumentation,Shri Guru Gobind Singhji College of Engg and technology ,Nanded	Two Day 08 & 09 July 2013	2013
10	"3DEXPERIENCE Customer Forum" at Taj Lands End, Bandra W Mumbai	Dessault System	One Day October 9 2013	2013
	Workshop Research Potentials in Integrated Power Systems	Government College of Engineering Amravati	One day 16 Oct 2013	2013
11	3rd International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2014)	University Institute of Engineering Technology Chandigarh	Two days 14 15 Feb 2014	2014
12	Best Practices in curriculum development for Instrumentation Engineering	DTE MUMBAI and COE Pune	08 AUG 2014	2014

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List of Publication:

- ❖ A paper is published in International Journal of Computer Applications in Engineering, Technology and Sciences (IJ-CA-ETS) titled “**Medical Data Management and Web based access for Telemedicine Applications**” having details ISSN 0974-3596 OCT 11-MARCH 12 Volume4: Issue 1, Pages 19-24.
- ❖ A paper is published in National Conference on Recent trends in Instrumentation Engineering NCRTI 2012 titled “**MagentoCardiography** “ page num 13 -17 organized by Department of Instrumentation Engineering Padmabhooshan Vasantodada Patil Institute of Technology ,Budhgaon Tal Miraj Dist Sangli (Maharashtra) on 07 JAN 2012.
- ❖ A paper is published in National Conference on Recent trends in Instrumentation Engineering NCRTI 2012 titled “**Artificial Heart** “ page num 22 -26 organized by Department of Instrumentation Engineering Padmabhooshan Vasantodada Patil Institute of Technology ,Budhgaon Tal Miraj Dist Sangli (Maharashtra) on 07 JAN 2012.
- ❖ A paper is published in National Conference on Recent trends in Instrumentation Engineering NCRTI 2012 titled “**Patient monitoring with Zigbee**“ page num 18-21 organized by Department of Instrumentation Engineering Padmabhooshan Vasantodada Patil Institute of Technology ,Budhgaon Tal Miraj Dist Sangli (Maharashtra) on 07 JAN 2012.
- ❖ A paper is published in International Journal of Advances in Management ,Technology and Engineering titled “**Image Data Management and Web Access For Computed Tomography Applications**” having details ISSN: 2249-7455 SCIENCES VOL 1,ISSUE9(II),JUNE 2012 Page Num 92-97
- ❖ A book comprising of M Tech Thesis named “**Medical data management and web based access (Basics, Concepts, Methods)**” is published by Lambert Academic Publishing GmbH & Co GERMANY having details ISBN 978-3-659-10742-9 Year 2012
- ❖ A Paper is published in Journal of the Instrument Society of India ,IISC Bangalore “**Automation of Blow Molding machine by using PLC**” having Details ISBN 0970-9983 Vol 43 No 3 September 2013 Page Num 185-188
- ❖ A Paper “**Real time PLC based automatic blow molding machine verses Timer based automatic machine-A comparative study**” is published in “International Journal of Innovative Research in Electrical, Electronics. Instrumentation and Control engineering “ Vol1,Issue3,June 2013 having details ISSN 2321-2004
- ❖ A paper “**Variation of the Skin Biophysical Parameters (Hydration and Trans Epidermal Water Loss) with respect to Anatomical Body Regions**” is published in 3rd International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2014) organized by University Institute of Engineering Technology Chandigarh during 14 15 Feb 2014

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- ❖ A paper “**Assessment of the Skin (Hydration and Trans Epidermal Water Loss) in Normal and Psoriasis affected skin**” is published in IEEE Sponsored International Conference on Power. Automation and Communication organized by Government college of engineering Amravati during 06-08 Oct 2014
This paper is published in Conference publications of **IEEE xplorer Digital Library** Pages 103-106 Print ISBN 978-1-4799-7168-8 DOI 10.1109/INPAC.2014.6981144 Publisher IEEE
- ❖ A paper “Non Invasive Measurement of Skin Biophysical Parameters in Normal, Psoriasis, Vitiligo affected skin “ is published in IEEE Sponsored International Conference on Industrial Instrumentation and Control organized by College of engineering Pune during 28-30 May 2015
- ❖ A Paper is published in Journal of the Instrument Society of India ,IISC Bangalore “**Arduino Based Smart Cane for Blind persons**” having Details ISBN 0970-9983 Vol 46 No 2 June 2016 Page Num 91-95
- ❖ A paper is published in International journal of advance research ,Ideas and Innovations in Technology “Monitoring and Controlling of different parameters by using Labview and Arduino” having details ISSN 2454-132X ,Vol 3 Issue 3 pg 1617-1621
- ❖ Presented an abstract of “**Question Paper Quality - A Major Concern in Outcome Based Education**” his/her paper ID-1066 page num 23 at the **International Summit on Quality Indices in Higher Education - 2020**, held during 6th to 7th November, 2020 at Delhi Technological University, Delhi.

Awards Received:

S.N	Title	Year
01	Award of Honour for First rank in M.Tech along with Gold Medal is awarded on 96 th Birthday celebration of Dr.Sri Sri Shivarathri Rajendra Mahaswamigalavaru on 29 -08-2011 at SJCE College of Engg, Mysore	2011
02	Best Paper Award is received for the paper “ Variation of the Skin Biophysical Parameters (Hydration and Trans Epidermal Water Loss) with respect to Anatomical Body Regions ” in Assistive technology presented at 3rd International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2014) at Chandigarh during 14-15 February 2014	2014

Other Activities:

CONTRIBUTION TO ACADEMIC ENVIRONMENT/INSTITUTION /CORPORATE LIFE

- ❖ Worked as Incharge Head of the Department (Instrumentation Engg) during 2007-2008 and 2010-2019 at Govt Engg College, Amravati and working as Incharge Head from Dec 2020 onwards .
- ❖ Prepared and submitted the proposal under MODROB Modernization of Process control laboratory for Development of Process Instrumentation laboratory. Modernisation of Virtual Instrumentation Laboratory. Modernisation of Biomedical Laboratory.
- ❖ Department is granted with Rs10.30 Lakhs grant under MODROB for Modernization of Chemical and Analytical Laboratory during Year 2011-12.
- ❖ Organized Seminar for students on recent topics such as PLC & DCS and advanced industrial automation at Government College of Engineering, Chandrapur and Amravati.
- ❖ Acted as Vice Chairman, for first year centralized admission at application receipt centre ARC26 during year 2006
- ❖ Member anti ragging committee at Government Engineering College Amravati
- ❖ Additional charge of warden of Sahyadri Hostel, GCOE, Amravati during year 07-08
- ❖ Contribution in Industry compatible automation system such as Distributed Control System Laboratory set up, in Process Instrumentation laboratory .
- ❖ Organized one week workshop on “**Industrial Automation**” in collaboration with Prolific systems and technologies for third year students at GEC, Amravati during 19 mar 2012 to 24 mar 2012.
- ❖ Organized one week Short Term Training Programme(STTP) for Engineering/Polytechnic faculty members under TEQIP on “**Fundamentals of PLC Programming and Its Industrial Applications**” in GEC,Amravati during 12-16 Jun 2012
- ❖ Organized Departmental NSS Camp at Kulangana Khurd,Melghat region for Education Awareness, Health Check up Camp in the presence of Hon.MLA of the region Shri Kewalramji Kale during 24 Nov to 29 Nov 2011
- ❖ Working as Institute NBA Coordinator since 2015-2019 and appreciated the NBA coordination work by Hon.Joint Director ,Amravati Region

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UNIVERSITY/AUTONOMOUS ASSIGNMENTS

- ❖ Worked as Moderation committee member in examination, Electronics Board, RSTM Nagpur University, Nagpur.
- ❖ Worked as Officer in Charge Examination of RSTM, Nagpur University, Nagpur at Government college of Engineering, Chandrapur centre.
- ❖ Worked as Member, Local Enquiry Committee of RSTM Nagpur University, Nagpur.
- ❖ Working as Member of Academic board of Government College of Engg, Amravati.
- ❖ Working as Chairman, Board of Studies Instrumentation Engg, Government College of Engineering from 2007-2008. (An autonomous institute of Govt of Maharashtra, Amravati.)
- ❖ Worked as scrutiny Member of Direct second year admissions in aided and unaided engineering Institutes under Regional office, Amravati during year 2011.
- ❖ Worked as Officer In charge of Written Examination of Regional office for recruitment of various posts held on 04 Mar 2012.
- ❖ Worked as Adhoc member for Biomedical Engineering in Sant Gadge baba Amravati university Amravati.
- ❖ Worked as member by nomination for Electrical and Instrumentation board in North Maharashtra University Jalgaon.
- ❖ Worked as Controller of Examination at Government College of Engineering Jalgaon
- ❖ Working as Head of the department Instrumentation engineering from Jan 2021 to Sept 2021
- ❖ Working as Training and Placement Officer from September 2021

UMESH M THORKAR